

## CTR Employer Survey Report

Thank you for completing your Commute Trip Reduction survey. This report contains the survey results.

**Employer Id :** E80366

**Participation :** CTR

**Employer :** The Boeing Company

**Status :** Affected

**Worksite :** The Boeing Company - Development Center/Oxbow

**Survey Type :** Online

**Street :** 9725 East Marginal Way S

**Response Rate :** 66%

**Jurisdiction :** City of Tukwila

**Survey Date :** 5/1/2018

### Non-Drive Alone & One-Way VMT Rates at this Worksite

**Non-Drive Alone Rate :** 17.7%

**Drive Alone Rate :** 82.3%

**One-Way VMT per employee :** 18.9

**Average One-Way distance home to work :** 22.1

### Employees and Survey Response Information

**Reported Total Employees at Worksite:** 3,568

**Surveys Distributed :** 1,636

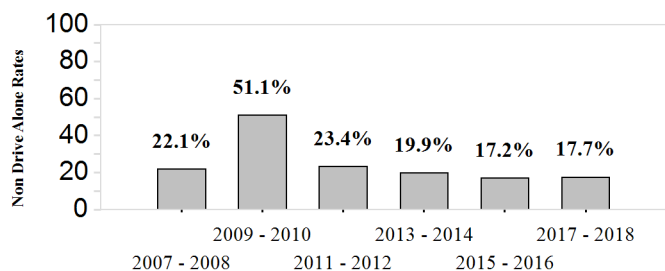
**Surveys Returned :** 1,085

**Surveys Returned by CTR Affected\* Employees :** 905

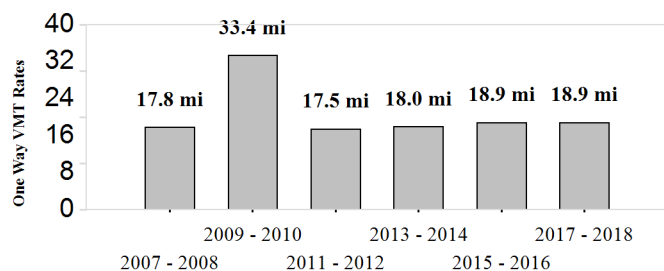
**Total Estimated CTR Affected Employees at Worksite :** 1,365

*\*CTR Affected employees filled out the survey as being full-time and commuting (typically) to work at least twice between 6a and 9a, Monday through Friday.*

#### Non Drive Alone Rates - ALL Employees



#### One Way VMT per Employee - ALL Employees



**Site History and Targets**

Annual Metric Tons CO<sub>2</sub>e Pounds CO<sub>2</sub>e

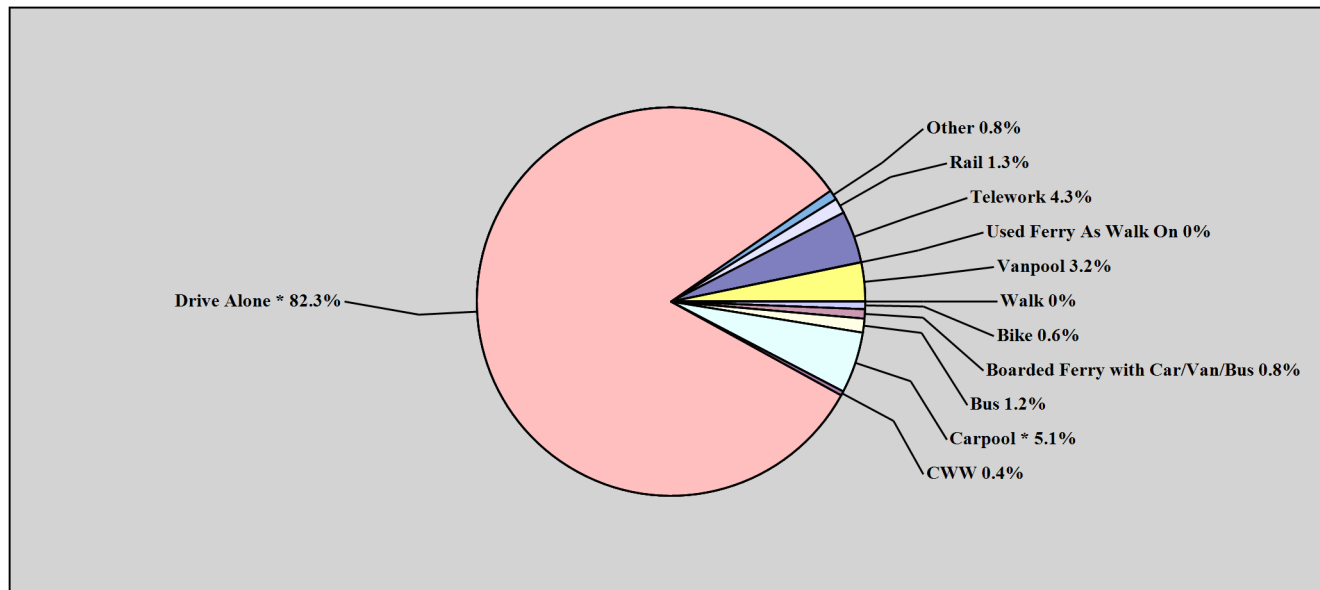
Cycle	Non Drive Alone Rate - All	Non Drive Alone Rate - CTR Affected	Emissions for Surveyed Employees	Estimated Emissions for Total Employment	GHG per Employee's Roundtrip	VMT per Employee - All	VMT per Employee - CTR Affected
2007 - 2008	22.1%	21.5%	10416	22007	54.4	17.8	17.0
2009 - 2010	26.9%	26.9%	6938	19352	47.8	16.6	16.6
2009 - 2010	24.2%	25.9%	5225	12012	29.7	16.8	16.0
2011 - 2012	23.4%	23.3%	2168	26167	64.7	17.5	16.6
2013 - 2014	19.9%	19.7%	4341	21314	52.7	18.0	17.3
2015 - 2016	17.2%	17.6%	4794	15740	38.9	18.9	17.7
2017 - 2018	17.7%	16.7%	4426	14555	36.0	18.9	18.0
Target	27.1%				Target:	13.9	
% Point Change Target:	5.0				% Change Target:	-21.9%	
% Point Change from Baseline:	-4.4				% Change from Baseline:	6.2%	

GHG calculations are based on VMT and estimated total round-trip commutes for all employees. Modes that contribute to GHG include driving alone, carpooling, vanpooling, and riding a motorcycle. The use of other modes (e.g., transit, rail, walking, ferry) do not increase a worksite's GHG calculation. For more information about how GHG is calculated, please contact your jurisdiction's representative.

## Commute Trips By Mode - All Employees

Q.4: Last week, what type of transportation did you use each day to commute TO your usual work location? (Mode used for the longest distance.)

Mode Split - All Employees



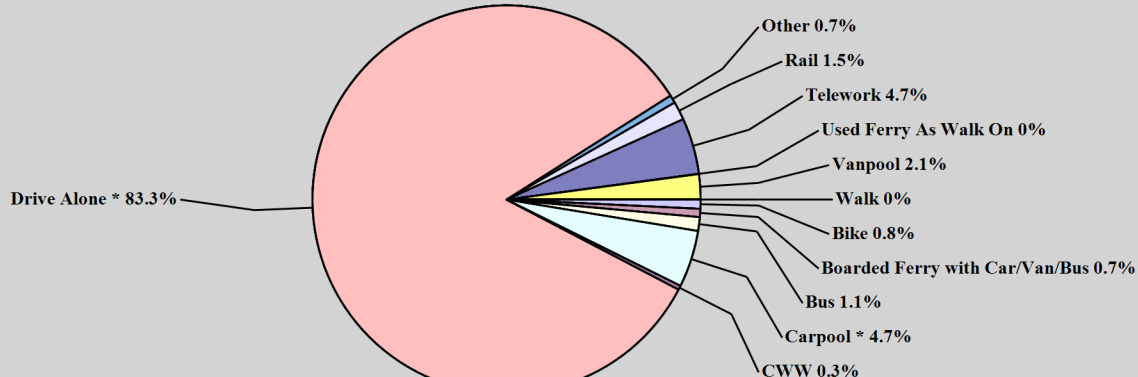
Mode	Trips During This Survey	% of Trips During This Survey	% of Trips During Previous Survey	Employees Who Used This Mode at Least Once During This Survey	% of Employees Who Used This Mode at Least Once During This Survey	% of Employees Who Used This Mode at Least Once During Previous Survey
Drive Alone *	4,343	82.3%	82.8%	961	88.6%	89.9%
Carpool *	269	5.1%	7.6%	68	6.3%	10.0%
Vanpool	171	3.2%	2.6%	39	3.6%	3.1%
Bus	61	1.2%	0.7%	19	1.8%	1.1%
Rail	67	1.3%	1.1%	18	1.7%	1.5%
Bike	33	0.6%	1.0%	10	0.9%	2.0%
Walk	0	0.0%	0.0%	0	0.0%	0.1%
Telework	228	4.3%	2.7%	152	14.0%	8.8%
CWW	19	0.4%	0.3%	16	1.5%	1.2%
Boarded Ferry with Car/Van/Bus	41	0.8%	0.5%	10	0.9%	0.7%
Used Ferry As Walk On	1	0.0%	0.0%	1	0.1%	0.1%
Other	43	0.8%	0.6%	17	1.6%	1.1%

\* Motorcycle-1 is now included in Drive Alone and Motorcycle-2 is included in Carpool. Information about these trips is still available by request.

## Commute Trips By Mode - Affected Employees

Q.4: Last week, what type of transportation did you use each day to commute TO your usual work location? (Mode used for the longest distance.)

Mode Split - CTR Affected Employees



Mode	Trips During This Survey	% of Trips During This Survey	% of Trips During Previous Survey	Employees Who Used This Mode at Least Once During This Survey	% of Employees Who Used This Mode at Least Once During This Survey	% of Employees Who Used This Mode at Least Once During Previous Survey
Drive Alone *	3,642	83.3%	82.5%	810	89.5%	90.0%
Carpool *	207	4.7%	7.5%	53	5.9%	10.0%
Vanpool	92	2.1%	2.3%	21	2.3%	2.7%
Bus	50	1.1%	0.9%	17	1.9%	1.4%
Rail	67	1.5%	1.4%	18	2.0%	1.9%
Bike	33	0.8%	1.1%	10	1.1%	2.2%
Walk	0	0.0%	0.0%	0	0.0%	0.1%
Telework	204	4.7%	3.2%	132	14.6%	10.5%
CWW	15	0.3%	0.4%	13	1.4%	1.2%
Boarded Ferry with Car/Van/Bus	30	0.7%	0.2%	8	0.9%	0.3%
Used Ferry As Walk On	1	0.0%	0.0%	1	0.1%	0.1%
Other	29	0.7%	0.5%	12	1.3%	1.2%

\* Motorcycle-1 is now included in Drive Alone and Motorcycle-2 is included in Carpool. Information about these trips is still available by request.

**Alternative Modes - Number of Employees Who Used a Non-Drive Alone Mode:**

Non-Drive Alone Number Of Days	Exactly this # of Employees	Exactly this % of Employees	At least # of Employees	At least % of employees
<b>0 Day</b>	772	71%	1,085	100%
<b>1 Days</b>	103	9%	313	29%
<b>2 Days</b>	48	4%	210	19%
<b>3 Days</b>	26	2%	162	15%
<b>4 Days</b>	34	3%	136	13%
<b>5 Days</b>	95	9%	102	9%
<b>6 or More Days</b>	7	1%	7	1%

**Count by Occupancy of Carpools and Vanpools**

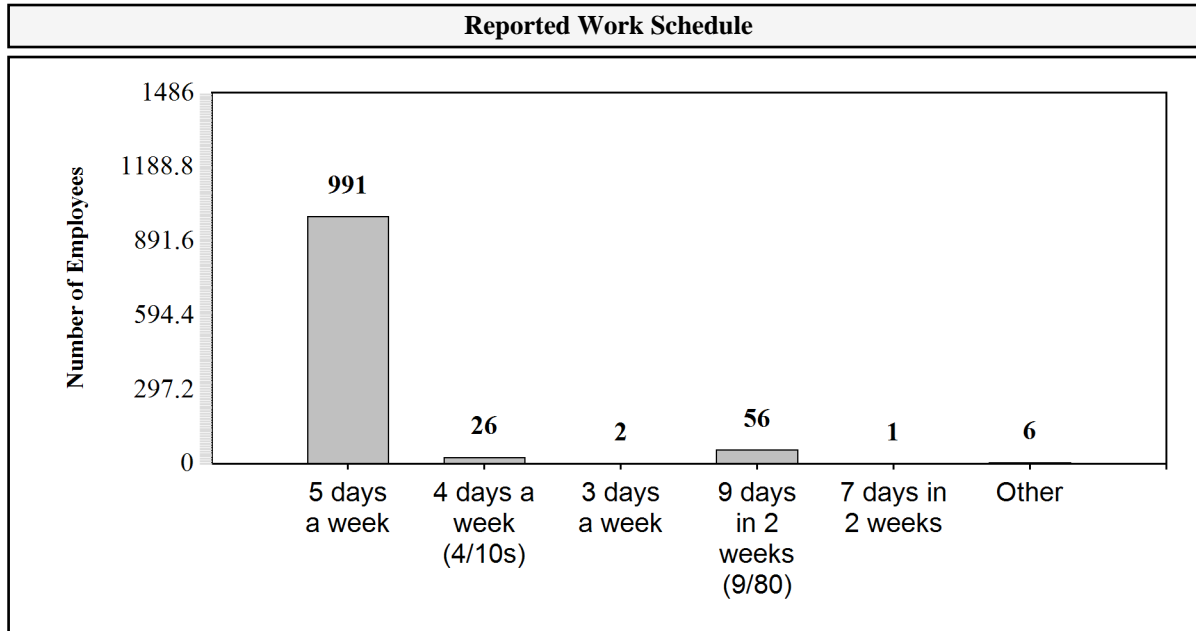
Q.5 If you used a carpool or vanpool as part of your commute, how many people (age 16 or older) are usually in the vehicle?

Ridesharing Occupancy	Mode	Response Count
<b>2*</b>	Carpool	256
<b>3</b>	Carpool	8
<b>4</b>	Carpool	0
<b>5</b>	Carpool	0
<b>&gt;5</b>	Carpool	5
<b>&lt;5</b>	Vanpool	7
<b>5</b>	Vanpool	25
<b>6</b>	Vanpool	3
<b>7</b>	Vanpool	42
<b>8</b>	Vanpool	50
<b>9</b>	Vanpool	30
<b>10</b>	Vanpool	14
<b>11</b>	Vanpool	0
<b>12</b>	Vanpool	0
<b>13</b>	Vanpool	0
<b>14</b>	Vanpool	0
<b>&gt;14</b>	Vanpool	0

\* Motorcycle-2 counted with Carpool-2 for this table.

## Reported Work Schedule - All Employees

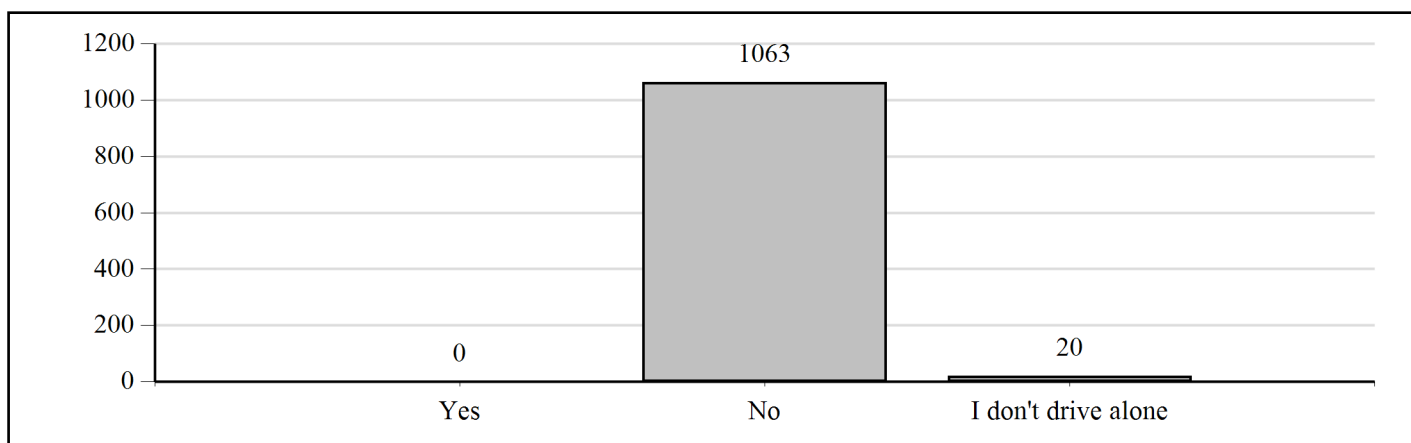
Q.8 Which of the following best describes your work schedule?



Reported Work Schedule	# Of Responses	% Of Employees
5 days a week	991	91.6%
4 days a week (4/10s)	26	2.4%
3 days a week	2	0.2%
9 days in 2 weeks (9/80)	56	5.2%
7 days in 2 weeks	1	0.1%
Other	6	0.6%

## Parking and Telework

**Q.9: On the most recent day that you drove alone to work, did you pay to park? (Mark "yes" if you paid that day, if you prepaid, if you are billed later, or if the cost of parking is deducted from your paycheck.)**



**Q.10: How many days do you typically telework?**

Telework Frequency	# of Responses	% of Responses
No Answer/Blank	5	0.5%
I don't telework	457	42.1%
Occasionally, on an as-needed basis	425	39.2%
1-2 days/month	70	6.5%
1 day/week	96	8.8%
2 days/week	22	2.0%
3 days/week	10	0.9%

## Reasons for driving alone to work/not driving alone to work

Q11. When you do not drive alone to work, what are the three most important reasons?

Question Text	# of Responses	% of Responses
I have the option of teleworking	343	17.9%
To save time using the HOV lane	248	12.9%
To save money	241	12.6%
Other	203	10.6%
Personal health or well-being	191	10.0%
Free or subsidized bus, train, vanpool pass or fare benefit	152	7.9%
Financial incentives for carpooling, bicycling or walking.	148	7.7%
Environmental and community benefits	147	7.7%
Driving myself is not an option	93	4.9%
Emergency ride home is provided	71	3.7%
Cost of parking or lack of parking	45	2.3%
Preferred/reserved carpool/vanpool parking is provided	29	1.5%
I receive a financial incentive for giving up my parking space	6	0.3%

Q12. When you drive alone to work, what are the three most important reasons?

Question Text	# of Responses	% of Responses
Riding the bus or train is inconvenient or takes too long	846	30.9%
I like the convenience of having my car	709	25.9%
Family care or similar obligations	343	12.5%
Other	248	9.1%
My job requires me to use my car for work	188	6.9%
Bicycling or walking isn't safe	178	6.5%
My commute distance is too short	145	5.3%
I need more information on alternative modes	69	2.5%
There isn't any secure or covered bicycle parking	13	0.5%



## Commute Mode By ZipCode for All Employees

Q6. What is your home zip code?

Home Zip code	Total Employees	Employee Percentage	Weekly Count of Trips By Mode												
			Drive Alone	Carpool	Vanpool	Motorcycle	Bus	Train	Bike	Walk	Telework	CWW	Ferry (Car/Van/Bus)	Ferry (walk-on)	Other
98042	55	5.07%	231	5	0	5	0	5	0	0	10	2	0	0	0
98038	40	3.69%	165	13	0	2	0	0	0	0	7	1	0	0	0
98058	38	3.50%	172	5	0	2	0	0	1	0	6	2	0	0	0
98059	37	3.41%	162	7	0	4	0	0	3	0	7	0	0	0	0
98092	34	3.13%	134	19	0	0	0	4	0	0	13	0	0	0	0
98023	30	2.76%	126	12	0	0	0	0	0	0	9	0	0	0	0
98391	29	2.67%	111	4	13	2	0	9	0	0	5	0	0	0	0
98006	24	2.21%	84	9	0	0	6	0	0	0	13	1	0	0	0
98031	24	2.21%	96	10	5	0	0	0	0	0	4	0	0	0	0
98003	23	2.12%	106	0	0	0	2	0	0	0	5	0	0	0	3
98001	22	2.03%	94	5	0	0	0	0	0	0	1	1	0	0	0
98056	22	2.03%	90	0	0	0	0	0	0	0	2	0	0	0	0
98198	20	1.84%	89	5	0	0	0	0	0	0	9	0	0	0	0
98166	19	1.75%	86	1	0	2	0	0	0	0	6	0	0	0	0
98115	17	1.57%	63	9	2	5	0	0	3	0	3	0	0	0	0
98116	17	1.57%	79	3	0	0	2	0	0	0	1	0	0	0	0
98055	16	1.47%	79	0	0	2	0	0	0	0	0	0	0	0	0
98103	16	1.47%	60	0	5	0	5	0	0	0	1	1	0	0	0
98371	15	1.38%	56	7	0	0	0	10	0	0	3	0	0	0	0
98027	14	1.29%	67	3	0	0	0	0	0	0	1	0	0	0	0
98030	14	1.29%	62	2	0	0	0	0	3	0	1	0	0	0	0
98032	14	1.29%	60	0	0	0	2	0	0	0	2	0	0	0	0
98117	14	1.29%	50	5	0	0	0	0	5	0	5	0	0	0	0
98374	13	1.20%	37	7	5	0	0	12	0	0	10	0	0	0	0
98375	12	1.11%	39	4	5	0	0	11	0	0	1	0	0	0	0
98022	11	1.01%	33	20	0	0	0	0	0	0	0	0	0	0	3



Home Zip code	Total Employees	Employee Percentage	Weekly Count of Trips By Mode												
			Drive Alone	Carpool	Vanpool	Motorcycle	Bus	Train	Bike	Walk	Telework	CWW	Ferry (Car/Van/Bus)	Ferry (walk-on)	Other
98040	11	1.01%	46	0	0	0	4	0	3	0	2	0	0	0	0
98126	11	1.01%	48	0	0	0	5	0	0	0	2	0	0	0	0
98107	10	0.92%	45	0	0	0	3	0	0	0	2	0	0	0	0
98109	10	0.92%	38	0	0	5	0	0	0	0	2	1	0	0	0
98122	10	0.92%	32	4	0	5	6	0	0	0	0	0	0	0	2
98029	9	0.83%	35	2	0	0	0	0	0	0	5	0	0	0	0
98168	9	0.83%	42	0	0	0	0	0	0	0	2	0	0	0	0
98321	9	0.83%	33	1	5	0	0	2	0	0	1	2	0	0	0
98372	9	0.83%	37	0	5	0	0	0	0	0	0	0	0	0	0
98422	9	0.83%	33	0	0	0	0	0	0	0	0	0	0	0	0
98002	8	0.74%	36	5	0	0	0	0	0	0	2	0	0	0	0
98033	8	0.74%	29	0	0	0	0	0	0	0	6	0	0	0	0
98188	8	0.74%	41	0	0	0	0	0	0	0	1	0	0	0	0
98010	7	0.65%	34	0	0	0	0	0	0	0	1	0	0	0	0
98118	7	0.65%	26	0	0	0	0	0	0	0	3	0	0	0	0
98133	7	0.65%	35	0	0	0	0	0	0	0	0	0	0	0	0
98136	7	0.65%	24	0	0	0	0	0	4	0	1	0	0	0	0
98146	7	0.65%	34	0	0	0	0	0	0	0	0	0	0	0	0
98208	7	0.65%	36	0	0	0	0	0	0	0	0	0	0	0	0
98335	7	0.65%	16	3	13	0	0	0	0	0	1	0	0	0	0
98360	7	0.65%	30	0	0	0	0	0	0	0	0	0	0	0	0
98390	7	0.65%	14	0	0	0	0	4	0	0	5	1	0	0	0
98005	6	0.55%	23	4	0	0	0	0	0	0	4	0	0	0	0
98008	6	0.55%	20	5	0	0	0	0	0	0	0	0	0	0	5
98011	6	0.55%	25	0	0	0	0	0	0	0	0	0	0	0	0
98021	6	0.55%	19	5	0	0	3	0	0	0	2	1	0	0	0
98034	6	0.55%	26	0	0	0	0	0	0	0	2	1	0	0	0
98036	6	0.55%	19	1	6	1	1	0	0	0	0	0	0	0	0
98072	6	0.55%	26	0	0	0	0	0	0	0	5	0	0	0	0



Home Zip code	Total Employees	Employee Percentage	Weekly Count of Trips By Mode												
			Drive Alone	Carpool	Vanpool	Motorcycle	Bus	Train	Bike	Walk	Telework	CWW	Ferry (Car/Van/Bus)	Ferry (walk-on)	Other
98106	6	0.55%	27	0	0	0	0	0	0	0	0	0	0	0	0
98387	6	0.55%	12	6	9	0	0	0	0	0	1	0	0	0	0
98406	6	0.55%	22	0	7	0	0	1	0	0	0	0	0	0	0
	5	0.46%	21	0	0	0	0	0	0	0	0	0	0	0	3
98004	5	0.46%	26	0	0	0	0	0	0	0	0	0	0	0	0
98012	5	0.46%	11	10	0	0	3	0	0	0	1	0	0	0	0
98026	5	0.46%	20	3	0	0	0	0	0	0	3	0	0	0	1
98045	5	0.46%	10	12	0	0	0	0	0	0	2	0	0	0	0
98051	5	0.46%	20	0	0	0	0	0	0	0	1	0	0	0	6
98052	5	0.46%	24	0	0	0	0	0	0	0	1	0	0	0	0
98057	5	0.46%	23	0	0	0	0	0	0	0	1	0	0	1	0
98065	5	0.46%	24	0	0	0	0	0	0	0	1	0	0	0	1
98108	5	0.46%	22	0	0	0	0	5	0	0	0	0	0	0	0
98125	5	0.46%	25	0	0	0	0	0	0	0	0	0	0	0	0
98144	5	0.46%	24	0	0	0	0	0	0	0	1	0	0	0	0
98148	5	0.46%	25	0	0	0	0	0	0	0	0	0	0	0	0
98199	5	0.46%	24	0	0	0	0	0	0	0	0	0	0	0	0
98270	5	0.46%	12	3	8	0	0	0	0	0	3	0	0	0	0
98366	5	0.46%	14	0	0	0	0	0	0	0	2	0	12	0	0
98367	5	0.46%	9	0	5	0	0	0	0	0	0	0	9	0	0
98028	4	0.37%	9	0	10	0	0	0	0	0	0	0	0	0	0
98053	4	0.37%	17	0	0	0	0	0	0	0	2	0	0	0	0
98074	4	0.37%	18	0	0	0	0	0	0	0	0	0	0	0	0
98075	4	0.37%	17	5	0	0	0	0	0	0	0	0	0	0	0
98112	4	0.37%	18	0	0	0	0	2	0	0	0	0	0	0	0
98119	4	0.37%	13	0	0	0	7	0	0	0	0	0	0	0	0
98155	4	0.37%	18	0	0	0	0	0	0	0	3	0	0	0	0
98332	4	0.37%	12	0	5	2	0	0	0	0	0	0	0	0	1
98373	4	0.37%	15	0	6	0	0	0	0	0	0	0	0	0	0



Home Zip code	Total Employees	Employee Percentage	Weekly Count of Trips By Mode												
			Drive Alone	Carpool	Vanpool	Motorcycle	Bus	Train	Bike	Walk	Telework	CWW	Ferry (Car/Van/Bus)	Ferry (walk-on)	Other
98407	4	0.37%	14	0	5	0	0	0	0	0	1	0	0	0	0
98446	4	0.37%	18	0	0	0	0	0	0	0	0	0	0	0	1
98466	4	0.37%	9	5	5	0	0	0	0	0	0	0	0	0	0
98467	4	0.37%	16	0	0	0	0	0	0	0	4	0	0	0	0
98498	4	0.37%	11	0	9	0	0	0	0	0	0	0	0	0	0
98087	3	0.28%	15	0	0	0	0	0	0	0	0	0	0	0	0
98102	3	0.28%	15	0	0	0	0	0	0	0	0	0	0	0	0
98105	3	0.28%	14	0	0	0	0	0	0	0	0	0	0	0	0
98178	3	0.28%	10	5	0	0	0	0	0	0	0	0	0	0	0
98203	3	0.28%	12	0	5	0	0	0	0	0	0	0	0	0	0
98258	3	0.28%	9	0	0	5	0	0	0	0	0	0	0	0	0
98277	3	0.28%	12	0	0	0	0	0	0	0	0	1	0	0	0
98290	3	0.28%	13	0	0	0	0	0	0	0	0	0	0	0	0
98338	3	0.28%	7	0	5	0	0	0	0	0	0	0	0	0	5
98354	3	0.28%	10	0	5	0	0	0	0	0	0	0	0	0	0
98359	3	0.28%	12	0	0	0	0	0	0	0	2	0	0	0	0
98404	3	0.28%	13	0	0	0	0	0	0	0	2	0	0	0	0
98409	3	0.28%	13	0	0	0	0	0	2	0	0	0	0	0	0
98424	3	0.28%	8	5	0	0	0	0	0	0	2	0	0	0	0
98007	2	0.18%	6	4	0	0	0	0	0	0	0	0	0	0	0
98024	2	0.18%	9	0	0	0	0	0	0	0	0	0	0	0	1
98047	2	0.18%	8	0	0	0	0	0	0	0	2	0	0	0	0
98104	2	0.18%	10	0	0	0	0	2	0	0	0	0	0	0	0
98110	2	0.18%	0	0	0	0	0	0	5	0	1	0	4	0	0
98121	2	0.18%	10	0	0	0	0	0	0	0	0	0	0	0	0
98177	2	0.18%	6	0	0	0	0	0	0	0	0	0	0	0	0
98275	2	0.18%	10	0	0	0	0	0	0	0	1	0	0	0	0
98284	2	0.18%	5	0	0	0	0	0	0	0	5	2	0	0	0
98296	2	0.18%	10	0	0	0	0	0	0	0	0	0	0	0	0



Home Zip code	Total Employees	Employee Percentage	Weekly Count of Trips By Mode												
			Drive Alone	Carpool	Vanpool	Motorcycle	Bus	Train	Bike	Walk	Telework	CWW	Ferry (Car/Van/Bus)	Ferry (walk-on)	Other
98327	2	0.18%	7	0	2	0	0	0	0	0	1	0	0	0	0
98328	2	0.18%	0	5	5	0	0	0	0	0	0	0	0	0	0
98370	2	0.18%	0	5	5	0	0	0	0	0	0	0	0	0	2
98383	2	0.18%	5	0	0	0	0	0	0	0	0	0	5	0	0
98403	2	0.18%	10	0	0	0	0	0	0	0	0	0	0	0	0
98444	2	0.18%	9	0	0	0	0	0	0	0	0	1	0	0	0
98445	2	0.18%	10	0	0	0	0	0	0	0	0	0	0	0	0
98501	2	0.18%	12	0	0	0	0	0	0	0	0	0	0	0	0
98516	2	0.18%	10	0	0	0	0	0	0	0	0	0	0	0	0
98020	1	0.09%	5	0	0	0	0	0	0	0	0	0	0	0	0
98025	1	0.09%	4	0	0	1	0	0	0	0	0	0	0	0	0
98043	1	0.09%	5	0	0	0	0	0	0	0	0	0	0	0	0
98061	1	0.09%	0	0	0	0	1	0	4	0	0	0	0	0	0
98068	1	0.09%	4	0	0	0	0	0	0	0	0	0	0	0	0
98070	1	0.09%	0	0	0	0	0	0	0	0	0	0	6	0	0
98101	1	0.09%	3	0	0	0	0	0	0	0	0	1	0	0	0
98223	1	0.09%	3	0	0	1	0	0	0	0	1	0	0	0	0
98260	1	0.09%	0	0	0	0	0	0	0	0	0	0	2	0	0
98272	1	0.09%	0	0	0	0	5	0	0	0	0	0	0	0	0
98292	1	0.09%	5	0	0	0	0	0	0	0	0	0	0	0	0
98312	1	0.09%	4	0	0	0	0	0	0	0	1	0	0	0	0
98329	1	0.09%	0	4	0	0	0	0	0	0	1	0	0	0	0
98346	1	0.09%	0	0	0	0	0	0	0	0	2	0	3	0	0
98349	1	0.09%	0	0	0	0	0	0	0	0	4	0	0	0	0
98351	1	0.09%	0	0	5	0	0	0	0	0	0	0	0	0	0
98353	1	0.09%	5	0	0	0	0	0	0	0	0	0	0	0	0
98376	1	0.09%	0	0	0	0	0	0	0	0	0	0	0	0	2
98402	1	0.09%	5	0	0	0	0	0	0	0	0	0	0	0	0
98405	1	0.09%	0	0	0	0	6	0	0	0	0	0	0	0	0



			Weekly Count of Trips By Mode												
Home Zip code	Total Employees	Employee Percentage	Drive Alone	Carpool	Vanpool	Motorcycle	Bus	Train	Bike	Walk	Telework	CWW	Ferry (Car/Van/Bus)	Ferry (walk-on)	Other
98465	1	0.09%	0	0	2	0	0	0	0	0	0	0	0	0	2
98513	1	0.09%	4	0	0	0	0	0	0	0	1	0	0	0	0
98532	1	0.09%	5	0	0	0	0	0	0	0	0	0	0	0	0
98579	1	0.09%	5	0	0	0	0	0	0	0	0	0	0	0	0
98591	1	0.09%	5	2	0	0	0	0	0	0	0	0	0	0	0
98597	1	0.09%	5	0	0	0	0	0	0	0	0	0	0	0	0
98704	1	0.09%	0	0	4	0	0	0	0	0	1	0	0	0	0
98925	1	0.09%	0	5	0	0	0	0	0	0	0	0	0	0	0
98926	1	0.09%	0	5	0	0	0	0	0	0	0	0	0	0	0
99999	1	0.09%	0	0	0	0	0	0	0	0	0	0	0	0	5